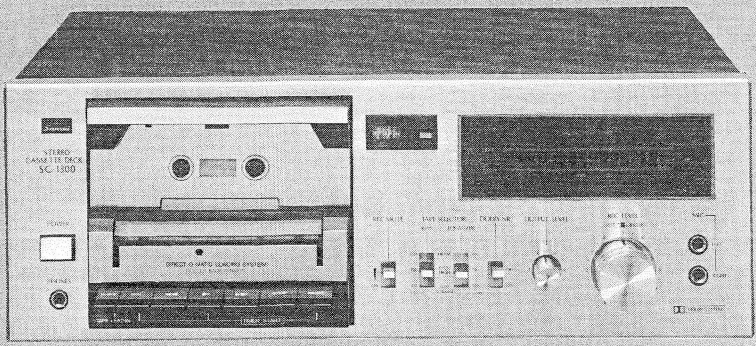
SERVICE MANUAL

STEREO CASSETTE DECK

SANSUI SC-1300/1330



Sansui

SANSUI ELECTRIC CO., LTD.

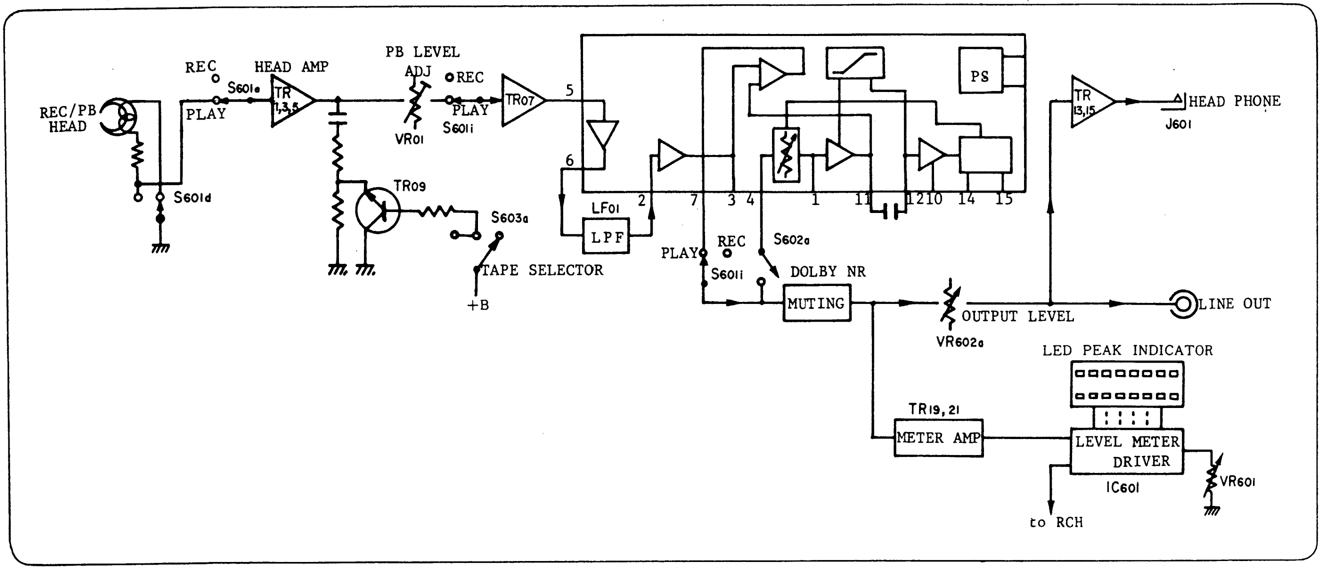
SPECIFICATIONS

Track	4-Track (2-Channel Stereo)
Tape Speed	4.8 cm/sec. (1-7/8 ips)
Heads	Record/Playback: FH Head Erase: Double Gap Ferrite Head
Motor	Electronically Controlled DC Motor
Wow and flutter	within 0.05 % WRMS
Fast wind time	approximately 75 seconds (C-60)
Frequency response (Record/Playback)	
Normal Tape (LH) (−20 VU)	20 to 16,000 Hz (20 to 15,000 Hz ±3 dB)
Metal Tape (−20 VU)	20 to 18,000 Hz (20 to 16,000 Hz ±3 dB)
(0 VU)	20 to 13,000 Hz ±3 dB
Signal to noise ratio (Record/Playback)	
Metal Tape (without Dolby Noise Reduction Effect)	better than 59 dB (weighted)
(With Dolby Noise Reduction)	better than 69 dB (above 5 kHz)
Erasure factor	
Metal Tape	more than 70 dB at 1,000 Hz
Input sensitivity and impedance (0 VU, 1,000 Hz)	
MIC	0.3 mV/200Ω ~ 5 kΩ
LINE IN (REC)	70 mV/100 kΩ
Output level (0 VU, 1,000 Hz)	
LINE OUT (PLAY)	390 mV
PHONES	65 mV/8Ω
Bias frequency	85 kHz
Power requirements	
Power voltage	100, 120, 220, 240 V (50/60 Hz)
For U.S.A. and Canada	120 V (60 Hz)
Power consumption	12 W (rated)
Dimensions	433 mm (17-1/16") W <SC-1300> 430 mm (16-15/16") W <SC-1330> 482 mm (19") W <SC-1330> (with Rackmounting Adaptor) 160 mm (6-5/16") H 320 mm (12-5/8") D
Weight	5.9 kg (13.0 lbs.) net <SC-1300> 7 kg (15.4 lbs.) packed <SC-1300> 6.85 kg (15.1 lbs.) net <SC-1330> 8.0 kg (17.6 lbs.) packed <SC-1330>

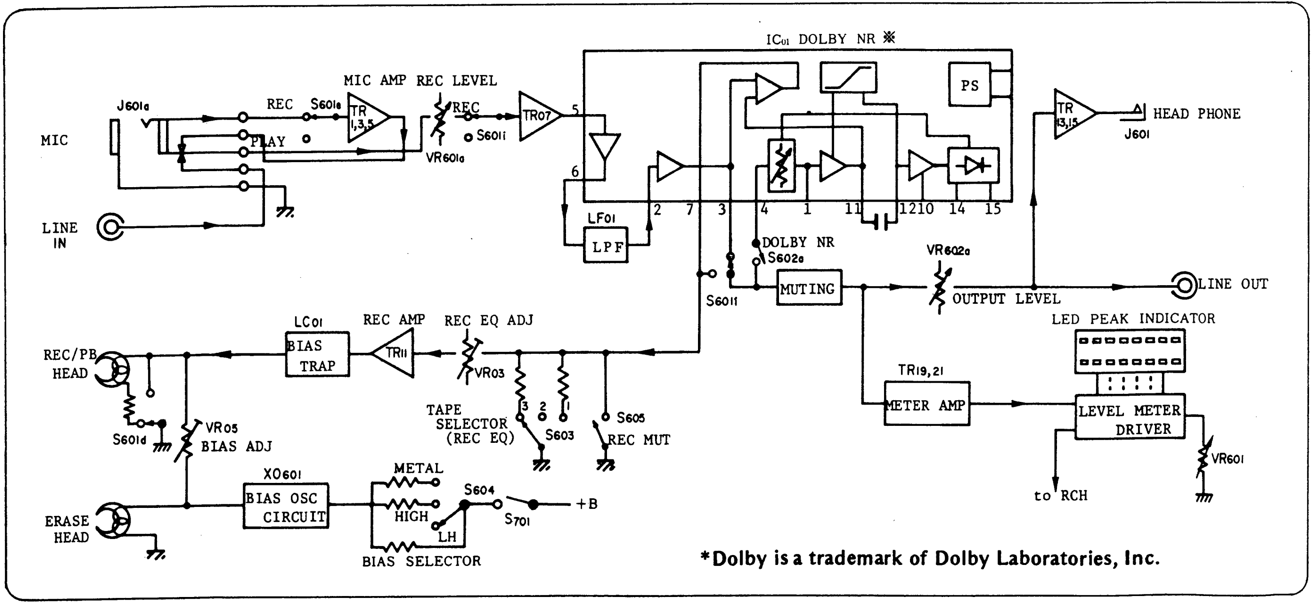
***Design and specifications subject to changes without notice for improvements.**

1. BLOCK DIAGRAM

1-1. Playback Operation


REC/PB HEAD
REC
S601a
PLAY
HEAD AMP
TR 1,3,5
S601d
TR09
S603a
TAPE SELECTOR
+B
PB LEVEL ADJ
REC
PLAY
S601i
VR01
TR07
5
6
LF01
LPF
2
7
3 4
1
11
12 10
14
15
PS
PLAY
REC
S601i
S602a
DOLBY NR
MUTING
OUTPUT LEVEL
VR602a
LINE OUT
TR 13,15
HEAD PHONE
J601
LED PEAK INDICATOR
TR19,21
METER AMP
LEVEL METER DRIVER
IC601
VR601
to RCH

1-2. Recording Operation


IC01 DOLBY NR ※
MIC
J601a
LINE IN
REC
S601e
PLAY
MIC AMP
TR 1,3,5
REC LEVEL
REC
S601i
VR601a
TR07
5
6
LF01
LPF
2
7
3
4
1
11
12 10
14
15
PS
DOLBY NR
S602a
S601i
MUTING
VR602a
OUTPUT LEVEL
LINE OUT
TR 13,15
HEAD PHONE
J601
LED PEAK INDICATOR
TR19,21
METER AMP
LEVEL METER DRIVER
VR601
to RCH
REC/PB HEAD
S601d
VR05
BIAS ADJ
LC01
BIAS TRAP
REC AMP
TR11
REC EQ ADJ
VR03
TAPE SELECTOR (REC EQ)
3 2 1
S603
S605
REC MUT
ERASE HEAD
X0601
BIAS OSC CIRCUIT
METAL
HIGH
LH
S604
S701
+B
BIAS SELECTOR

*Dolby is a trademark of Dolby Laboratories, Inc.

2. ADJUSTMENTS

1. Tape Speed Adjustment

Note: 1. Use Sansui Test Tape, SCT-S3K
(3 kHz signals are recorded on the tape).
2. Connections are shown in Fig. 2-1.

Fig. 2-1

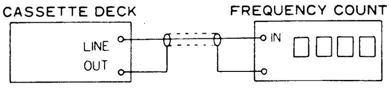
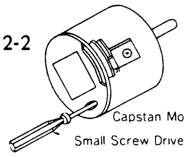

CASSETTE DECK
FREQUENCY COUNTER
LINE OUT
IN

Fig. 2-2


Capstan Motor
Small Screw Driver —

STEP	SUBJECT	INPUT SIGNAL	CHECK POINT	SETTING	ADJUST	ADJUST FOR	REMARKS
1.	TAPE SPEED ADJ.	Test Tape SCT-S3K	LINE OUT	Depress the PLAY button and playback the Test Tape, SCT-S3K	If not, turn semi-variable resistor as **Fig. 2-2** until 3000 Hz ± 45 Hz is obtained.	3000 Hz ± 45 Hz	Use small screw driver.

2. Playback Adjustment

Note: 1. Before this adjustment, clean REC/P.B head surface.
2. Set the output level volume to be maximum.
3. For this adjustment, use Sansui Test Tape, SCT-F10KN, SCT-L400N and SCT-F1K.
4. Set the Dolby switch to be OFF.
5. Connections are shown in Fig. 2-3.

Note: Azimuth adjustment can be carried out from front side without removing head cover (See **Fig. 8-1 on page 11**)

Fig. 2-3

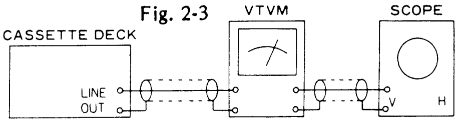
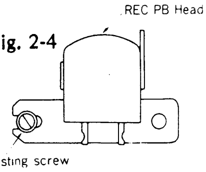

VTVM
SCOPE
CASSETTE DECK
LINE OUT
V
H

Fig. 2-4


REC PB Head
Azimuth Adjusting screw

STEP	SUBJECT	INPUT SIGNAL	CHECK POINT	SETTING	ADJUST FOR	REMARKS
1.	REC/PB Head Adj.	SCT-F10KN	LINE OUT VTVM Scope	Depress the PLAY button and play back the Test Tape, SCT-F10KN.	Adjust the azimuth adjusting screw in **Fig. 2-4** for the maximum reading on the VTVM on both channels.	After this adjustment, lock the screw with paint.
2.	Playback Level Adj.	SCT-L400N	Same as above	Set EQ SELECTOR to NORMAL (LH) position Depress the PLAY button and play back the Test Tape, SCT-L400N.	Adjust VR01 for L-CH and VR02 for R-CH for the reading of 500 mV on VTVM. See Top View on page 6	Set same level 500 mV ± 2 dB on both channels.
3.	High Frequency Equalization Check	SCT-F1K and SCT-F10KN	Same as above	Set EQ SELECTOR to NORMAL (LH) position Depress the PLAY button and play back the Test Tape, SCT-F1K and SCT-F10KN.	Confirm that the difference of output levels between SCT-F1K and SCT-F10KN is within ±3 dB.	In playback of SCT-10KN, set the EQ SELECTOR to HIGH (CrO_2) position, then confirm the indication on VTVM drops approximately 3 dB ~ 4 dB.

3. Recording Adjustment

1) Bias Adjustment

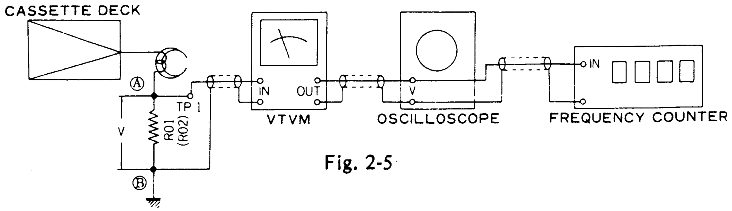

CASSETTE DECK
Ⓐ
Ⓑ
TP 1
V
R01 (R02)
IN
OUT
VTVM
V
OSCILLOSCOPE
IN
FREQUENCY COUNTER

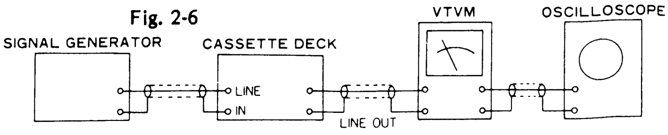
Fig. 2-5

STEP	SUBJECT	INPUT SIGNAL	CHECK POINT	SETTING	ADJUST	REMARKS
1.	Recording Bias Adj.	SCT-SA	Voltage value between A and B of R01 & R02 (See Top View on **page 6**)	Depress REC, PLAY and PAUSE buttons. Set BIAS SELECTOR to HIGH (CrO_2) position.	Adjust VR05 for L-CH and VR06 for R-CH for the reading of 6.0 mV between A and B in **Fig. 2-5** on both channel.	VR05, VR06 ..... See Top View on page 6.
				Set BIAS SELECTOR to NORMAL (LH) position.	Confirm the indication on VTVM shows 4.6 mV.	
				Set BIAS SELECTOR to Metal position.	Confirm the indication on VTVM shows 9.2 mV.	
2.	Bias Frequency Check	Same as above	**Same as above**	Set BIAS SELECTOR to NORMAL position.	Confirm that frequency counter shows 85 kHz ±10 kHz.	

2) Rec Level & Frequency Response Adjustment

Note: 1. Output Level Volume ..... Maximum.
2. Connections are shown in Fig. 2-6.

Fig. 2-6


SIGNAL GENERATOR
CASSETTE DECK
LINE IN
LINE OUT
VTVM
OSCILLOSCOPE

to be continued ▶

STEP	SUBJECT	INPUT SIGNAL	CHECK POINT	SETTING	ADJUST FOR	REMARKS
1.	REC Level Adj.	Use recording HIGH (CrO_2) tape SCT-SA Feed 1 kHz, 70 mV (0 dB) from S.G into LINE IN.	LINE OUT VTVM Scope	Set BIAS & EQ SELECTOR to HIGH (CrO_2) position. 1. Depress PAUSE, PLAY and REC button. 2. Adjust the Rec Level Volume for obtaining 300 mV on VTVM. 3. Push off the PAUSE button, then record the 1 kHz signal. 4. Play back the 1 kHz signal. 5. Confirm that the output levels on both channels are 300 mV ±2 dB on VTVM.	1. If not, turn VR03 for L-CH and VR04 for R-CH until output level 300 mV ±2 dB on both channel are obtained. 2. Repeat this REC Level adj. until the indication on VTVM will be 300 mV ±2 dB.	VR03, VR04 (G-1242) See Top View on page 6
2.	Frequency Response Adj.	Feed 1 kHz 7 mV (−20 dB) and 10 kHz 7mV (−20 dB) from S.G. into LINE IN.	LINE OUT	Set BIAS & EQ SELECTOR to HIGH (CrO_2) position. 1. Record the 1 kHz and 10 kHz signals from S.G. 2. Play back the 1 kHz and 10 kHz signals, then confirm that the difference of output levels between 1 kHz and 10 kHz are within 0 dB against that of 1 kHz.	1. If not, adjust VR05 for L-CH and VR06 for R-CH slightly until difference of output levels between 1 kHz and 10 kHz recorded are within 0 dB against that of 1 kHz.	As VR05 and VR06 are previously adjusted in step of Bias Adjustment, turn them slightly, if necessary.

4. Peak Level Meter Adjust

Note: Output Level Volume . . . . Max.

STEP	SUBJECT	INPUT SIGNAL	CHECK POINT	SETTING	ADJUST FOR	REMARKS
1.	Peak Level Meter Adj.	Feed 1 kHz 110 mV from S.G. into LINE IN SCT-SA	LINE OUT VTVM	1. Depress PAUSE, PLAY and REC button. 2. Adjust the Rec Level Volume for obtaining 470 mV on VTVM.	1. Light 0 dB indication of peak meter to adjust VR601 (L-CH) on G-1265. 2. Indication of 0 dB turns off when decreasing output level 0.2 dB from 470 mV by recording level volume.	Adjust VR601 (L-CH) on G-1265 at first then perform VR603 (R-CH) on G-1242. See Top View on page 6
2.	Filter 19 kHz 85 kHz Adj.	Feed 19 kHz 110 mV and 85 kHz 110mV from S.G. into LINE IN.	LINE OUT VTVM	Depress PAUSE PLAY and REC button.	Make the output minimum to adjust white core (19 kHz) and black core (85 kHz) of LF01 (L-CH) and LF02 (R-CH)	LF01, LF02 (G-1242) ..... See Top View on page 6

◇Tape Selector Position

Tape Selector		REC	PLAY
Tape		Bias/Equalizer	Equalizer
FUJI	Super Range	metal	metal
MAXELL	MX		
TDK	MA-R		
SCOTCH	Metafine		
SONY	METALLIC		
FUJI	Range 4X	high(CrO_2)	high(CrO_2)
MAXELL	XL II		
TDK	SA		
SCOTCH	MASTER 70		
SONY	JHF		
BASF	SCR		

Tape Selector		REC	PLAY
Tape		Bias/Equalizer	Equalizer
SONY	Duad	normal(LH)	high(CrO_2)
BASF	FCR		
FUJI	Range-2	normal(LH)	normal(LH)
	Range-4		
	Range-6		
MAXELL	UL		
	UD		
	XL I		
TDK	D		
	AD		
	OD		

Tape Selector		REC	PLAY
Tape		Bias/Equalizer	Equalizer
SCOTCH	TARTAN	normal(LH)	normal(LH)
	CRYSTAL		
	MASTER 120		
SONY	AHF		
	BHF		
	CHF		
	Low-Noise		
BASF	LN		
	Super LH I		

◇List of Sansui Test Tape

Name of test tape	Recorded Frequency	Description
SCT-S3K	3KHz	Speed check, Wow & Flutter check
SCT-L400N	400Hz	Playback level and VU meter level adjustment
SCT-F1K	1KHz	High frequency equalization check
SCT-F10KN	10KHz	REC/PB head adjustment

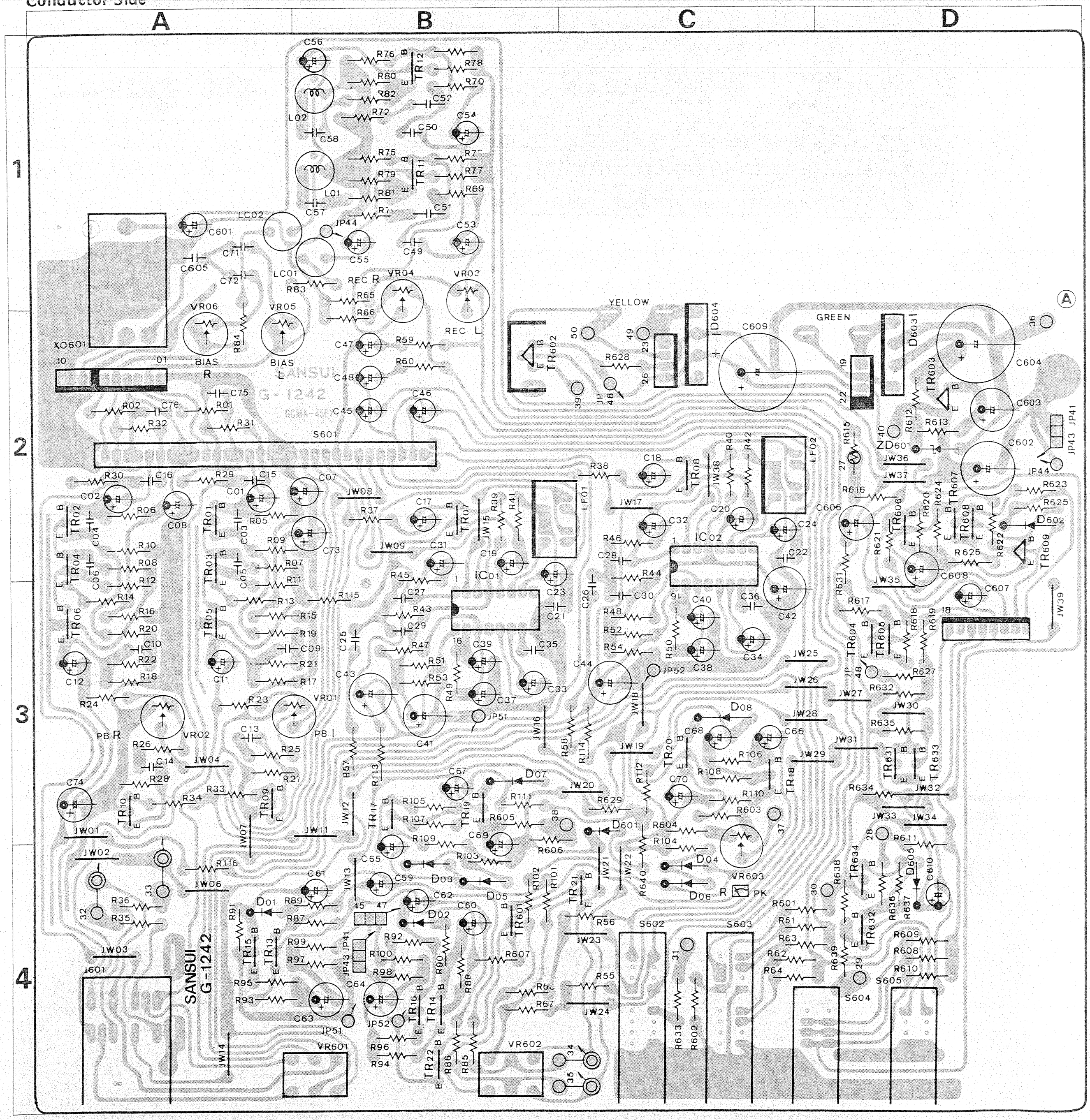
Name of test tape	Recorded Frequency	Description
SCT-SA<HIGH(CrO_2)>		Recording Bias Adjustment REC/PB Level Adjustment Frequency response check
SCT-LH<NORMAL(LH)>		
SCT-CS(Fe-Cr)		
SCT-F40	40Hz	Playback Frequency response check

3. PARTS LOCATION & PARTS LIST

- Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the new Common Parts List for capacitors & resistors.
- As the stock number in the parts list on this service manual is indicated in 8 digit to differ from ordinary 7 digit, please be careful when ordering parts.

3-1. G-1242 Main Circuit Board (Stock No. 76201601)

Conductor Side

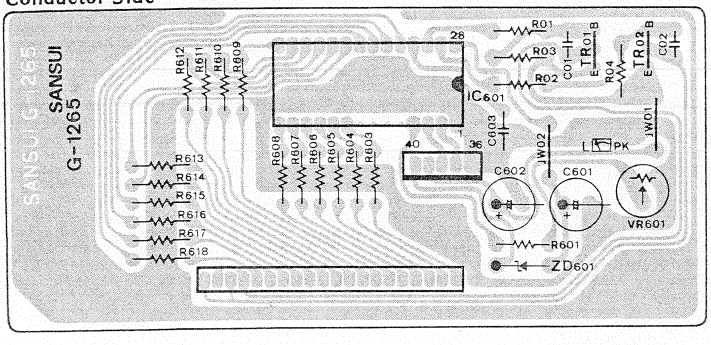

A
B
C
D
1
2
3
4
SANSUI G-1242
XO601
S601
VR06 BIAS R
VR05 BIAS L
VR04 REC R
VR03 REC L
VR01 PB L
VR02 PB R
VR601
VR602
VR603
YELLOW
GREEN
IC01
IC02
LF01
LF02
LC01
LC02
L01
L02
J601
S602
S603
S604
S605

Parts List

Parts No.	Stock No.	Description	Position
●Transistor			
TR01 ~ 08	03060701, 2	2SC1313 G, H	2A, B, C
TR09 ~ 14	03068301, 2	2SC2320 E, F	1B.4A
TR15, 16	03012700, 1	2SA999 E, F	4A, B
TR17 ~ 22	03068301, 2	2SC2320 E, F	3, 4B, C
TR601	03012700, 1	2SA999 E, F	4B
TR602, 603	03083901, 2	2SD313AL D, E	2B, D
TR604 ~ 08	03068301, 2	2SC2320 E, F	2D.3D
TR609	03083901, 2	2SD313AL D, E	2D
●IC			
IC 01, 02	03613600	NE646B	2C.3B
●Diode			
D 01, 02	03401500	MV-12	4A, B
D 03 ~ 06	03117600	1S2473D	4B, C
D 07, 08	03117800	1N60	3B, C
D 601	03401500	MV-12	3C
D 602	03117700	10E-2	2D
D 603	03117000	RB-152	2D
D 604	03117000	RB-152	2C
●Zener Diode			
ZD601	03179200	RD15E B	2D
●LED			
LED601	03193200	GL-9NG9	
L 01, 02	49005500	3.9 mH Inductor	1B
LC01, 02	42904400	Trap Coil	1A, B
LF01, 02	09106300	BL-30HA, Low Pass Filter	2B, C
VR01, 02	10351700	47kΩ (B), Play Level Volume	3A
VR03, 04	10351300	10kΩ (B), Rec Level Volume	1B
VR05, 06	10351900	100kΩ (B), Bias Volume	2A
VR601	10250400, 1	50kΩ (A) x 2, Rec Level Volume	4B
VR602	10156400, 1	10kΩ x 2, Output Level Volume	4B
VR603	10352100	220kΩ (B) x 2, Meter R Level Volume	4C
S 601	11104000	Rec/Play Switch	2A
S 602	11721100	Dolby NR Switch	4C
S 603	11721200	Tape Selector Switch (EQ)	4C
S 604	11721000	Tape Selector Switch (Bias)	4C
S 605	11720900	Rec Muting Switch	4D
J 601	24305300	Mic Jack	4A
XO601	08250400	OSC Composit Parts	1A

3-2. G-1265 Peak Meter Circuit Board (Stock No. 76907301)

Conductor Side


SANSUI G-1265
SANSUI
G-1265
R612
R611
R610
R609
28
IC601
R01
R03
R02
C01
TR01
B
E
R04
TR02
B
E
C02
C603
1
36
40
R608
R607
R606
R605
R604
R603
JW02
JW01
L
PK
R613
R614
R615
R616
R617
R618
C602
C601
VR601
R601
ZD601

Parts List

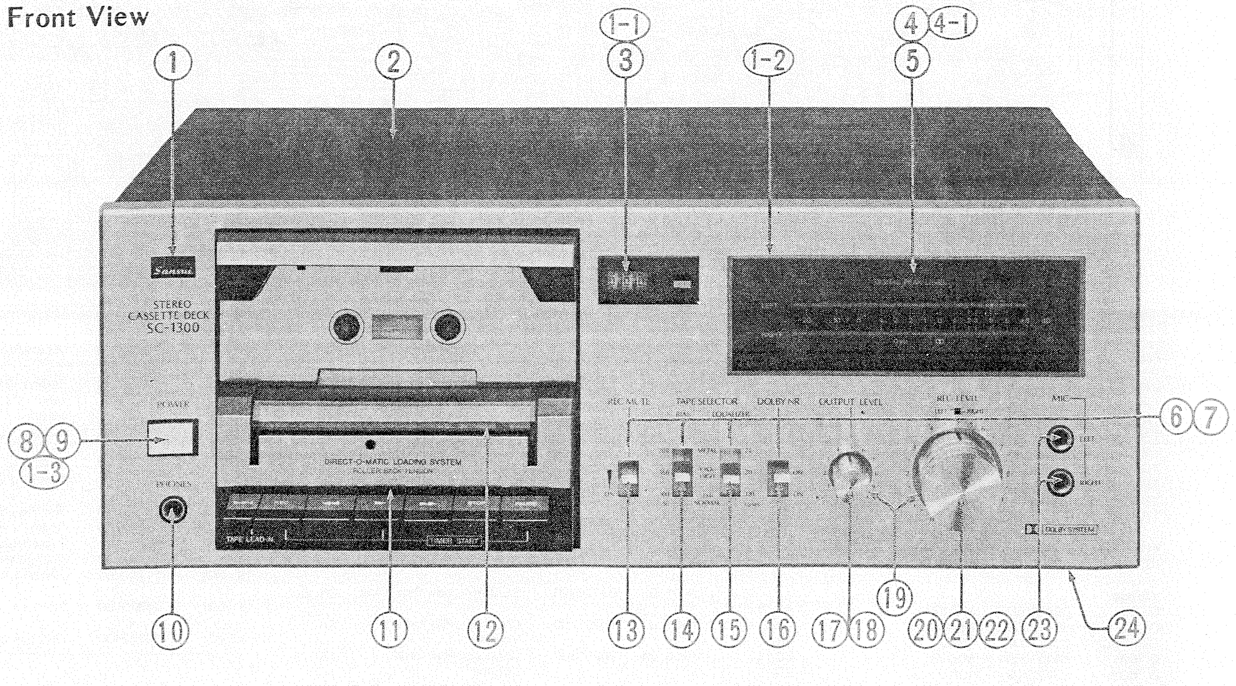
Parts No.	Stock No.	Description
●Transistor		
TR01, 02	03002200, 1	2SA562 O, Y
●IC		
IC 601	03613400	MSA806
●Zener Diode		
ZD601	03182800	RD3.9E-B
	03194100	SEL8809, LED Indicator Unit

●Abbreviations

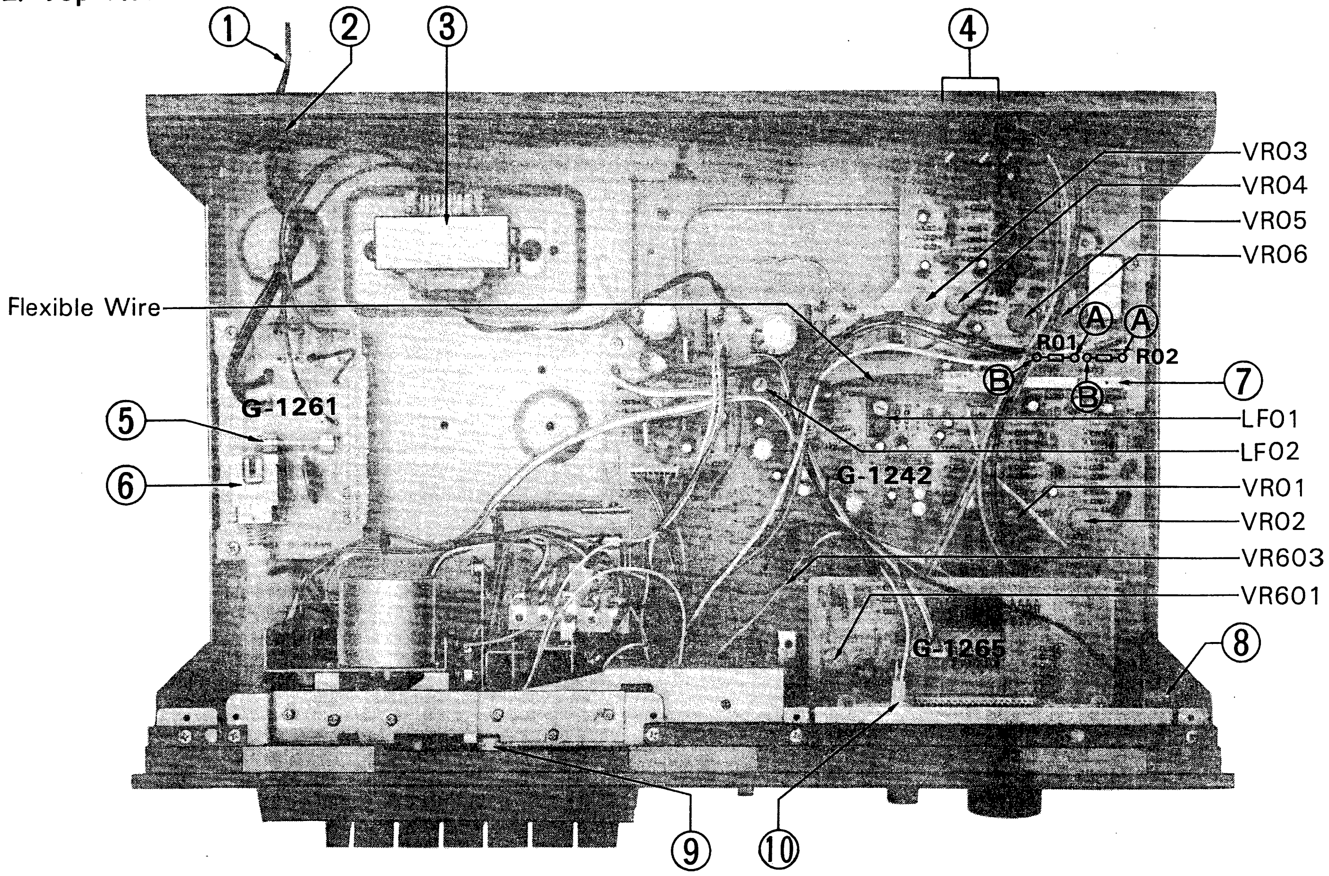
C.R.	Carbon Resistor
S.R.	Solid Resistor
Ce.R.	Cement Resistor
M.R.	Metal Film Resistor
F.R.	Fusing Resistor
N.I.R.	Non-Inflammable Resistor
C.C.	Ceramic Capacitor
C.T.	Ceramic Capacitor, Temperature Compensation
E.C.	Electrolytic Capacitor
E.L.	Low Leak Electrolytic Capacitor
E.B.	Bi-Polar Electrolytic Capacitor
E.BL.	Low Leak Bi-Polar Electrolytic Capacitor
Ta.C.	Tantalum Capacitor
F.C.	Film Capacitor
M.P.	Metalized Paper Capacitor
P.C.	Polystyrene Capacitor
G.C.	Gimmic Capacitor

4. OTHER PARTS

4-1. Front View


①
②
①-1
③
①-2
④④-1
⑤
⑥⑦
⑧⑨
①-3
Sansui
STEREO CASSETTE DECK SC-1300
POWER
PHONES
DIRECT-O-MATIC LOADING SYSTEM
TAPE LEAD-IN
REC MUTE
TAPE SELECTOR
DOLBY NR
OUTPUT LEVEL
REC LEVEL
MIC
LEFT
RIGHT
DOLBY SYSTEM
⑩
⑪
⑫
⑬
⑭
⑮
⑯
⑰⑱
⑲
⑳㉑㉒
㉓
㉔

4-2. Top View



Parts List <Top View>

Parts No.	Stock No.	Description
1	38004700	Power Cord
2	39106000	Strain Relief
3	40032600	Power Transformer
4	22005800	4P Line In/Out Terminal
5	04322100	Power Fuse 0.5A 250V
6	11312300	Power Switch
7	11104000	Rec/Play Switch
8	04007400	Peak Level Lamp
9	04008200	Lamp, cassette half
10	03193200	LED (Red), rec
	60560400	Flexible Wire

Parts List <Front View>

Parts No.	Stock No.	Description
1	70003830	Front Panel Ass'y <SC-1300>
	70003620	Front Panel Ass'y <SC-1330>
1-1	54400900	Counter Lens
1-2	52605400	Front Meter Glass
1-3	52813900	Knob Guide
2	57402710	Wood Bonnet <SC-1300>
	50000910	Bonnet <SC-1330>
3	54301500	Tape Counter Ass'y
4	54505510	Peak Meter Window Ass'y
4-1	53505700	Scale Glass
5	54401310	Smoked Plate
6	55102320	Masking Sheet <SC-1300>
	55102220	Masking Sheet <SC-1330>
7	53206210	Knob <SC-1300>
	53206110	Knob <SC-1330>
8	71000910	Power Switch Knob <SC-1300>
	71000800	Power Switch Knob <SC-1330>
9	11312300	Power Switch
10	24305400	Head Phone Jack
11	70004110	Mechanism Cover Ass'y <SC-1300>
	70004210	Mechanism Cover Ass'y <SC-1330>
12	50502700	Head Cover
13	11720900	Rec Mute Switch
14	11721200	Tape Selector Bias Switch
15	11721000	Tape Selector Equalizer Switch
16	11721100	Dolby NR Switch
17	53106410	Output Volume Knob <SC-1300>
	53105200	Output Volume Knob <SC-1330>
18	10156400	10kΩ (B) x 2 Output Volume
19	55102700	Masking Sheet <SC-1300>
	55102800	Masking Sheet <SC-1330>
20	53106220	Left Rec Volume Knob <SC-1300>
	53105300	Left Rec Volume Knob <SC-1330>
21	53106310	Right Rec Volume Knob <SC-1300>
	53105400	Right Rec Volume Knob <SC-1330>
22	10250400	50kΩ (A) x 2 Rec Volume
23	24305300	Mic Jack
24	55073500	Leg

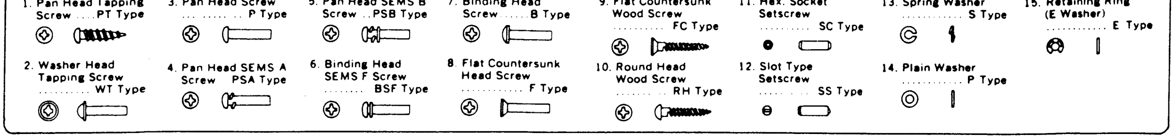
5. EXPLODED VIEW AND PARTS LIST

Parts List <Exploded View>

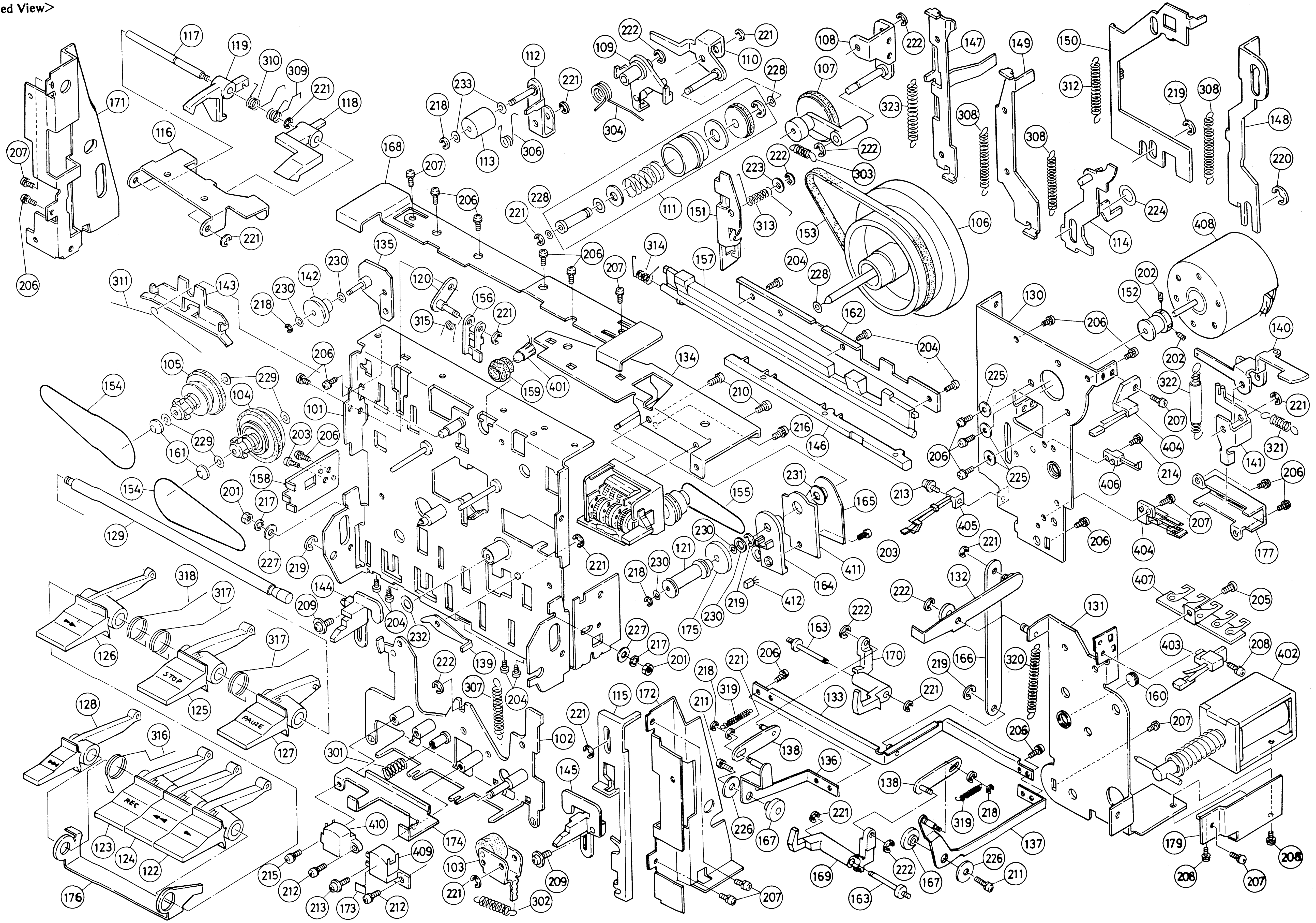
Parts No.	Stock No.	Description
103	70603400	Pinch Roller Arm Ass'y
104	71501400	Reel Hub (A) Ass'y
105	71501500	Reel Hub (B) Ass'y
106	70402300	Flywheel Ass'y
107	70603500	TU Idler Ass'y
109	70603600	FR Lever Ass'y
111	70603700	Idler (A) Ass'y
113	70603800	Idler (B) Ass'y
118	65010900	Upper Nail, cassette holder
119	65011000	Rec Prevention Nail
121	70603300	Counter Idler Ass'y
122	70501700	Play Button
123	70501600	REW Button
124	70501800	REC Button
125	70501900	Stop Button
126	70502000	FF Button
127	70502200	Pause Button
128	70502100	TL Button
135	71602500	BT Idler Lever Ass'y
142	61401700	BT Idler
152	61402000	Motor Pulley
153	60302500	Capstan Belt
154	60302600	Counter Belt (A)
155	60302400	Counter Belt (B)
159	56000200	Lamp Holder
160	51604000	Flywheel Thrust Screw
161	53700900	Cap
169	65011400	Right Nail
170	65011500	Left Nail
178	54301500	Counter
•Washers, Nuts, Screws		
201	51102210	Hexagon Nuts, M2.6
202	08322300	Slot Type Set Screw, M2 x 3
203	08321100	Pan Head Tapping Screw, M2.6 x 8
204	51035020	Pan Head Tapping Screw, M2 x 6
205	51099110	Binding Head Taptite Screw, M3 x 6
206	08321300	Pan Head SEMS (A type) Screw, M2.6 x 4
207	08321400	Pan Head SEMS (A type) Screw, M2.6 x 6
208	08322100	Pan Head SEMS (A type) Screw, M3 x 6
209	08322800	Pan Head SEMS (A type) Screw, M2.6 x 7
210	51030420	Pan Head Screw, M3 x 5
211	08322200	Pan Head Screw, M2.6 x 10
212	08321600	Pan Head SEMS (A type), M2 x 6
213	08321800	Pan Head SEMS (A type), M2 x 5
214	08321500	Pan Head SEMS (A type), M2 x 5
215	08321900	Pan Head Screw, M2 x 8
216	08321700	Pan Head SEMS (A type), M3 x 10
217	51213200	Spring Washer, M2.6
218	08322500	E Ring, M1.5 x 0.4
219	51510040	E Ring, M3 x 0.6
220	51510050	E Ring, M4 x 0.6
221	51510020	E Ring, M2 x 0.4
222	08322600	E Ring, M2.5 x 0.4
223	51201410	Plain Washer, M3.3 x 0.25
224	08323300	Plain Washer, M5.1 x 0.2
225	08322400	Plain Washer, M2.6 x 0.5
226	08323200	Plain Washer, M2.7 x 0.5
227	08322400	Plain Washer, M2.6 x 0.5
228	51804400	Thrust Washer, M2.6 x 0.25
229	51804200	Thrust Washer, M1.6 x 0.25
230	51804300	Thrust Washer, M2.1 x 0.25
231	08323100	Plain Washer, M4.1 x 0.5
232	08323500	Nylon Washer, M2.4 x 0.5
•Spring		
301	69011000	Head Adjust
302	69018600	Pinch Roller
303	69018700	TU Lever Ass'y
304	69018800	FR Lever Ass'y
305	69018900	Idler Lever
306	69019000	Idler (B) Lever
307	69019100	Play Plunger Rest
308	69019300	Head Base
309	69019400	Cassette Holder
310	69019500	Rec Prevention Nail
311	69019600	Brake Lever
312	69019700	Brake Lever Plate
313	69019800	Pause Lock Plate
314	69019900	Push Button Lock Plate
315	69020000	Rec Stopper Lever
316	69018300	TL Button Lever
317	69018400	Pause Button Lever
318	69018500	FF Button Lever
319	69020100	Nail
320	69020200	Connecting Lever
321	69020300	Over Stroke
322	69020400	Over Stroke Lever
323	07527200	Rec Lever
401	04008200	Lamp
402	43402900	Solenoid
403	11908000	Leaf Switch
404	11908100	Leaf Switch
405	11908200	Leaf Switch
406	11908300	Leaf Switch
408	43207500	Capstan Motor
409	45360600	REC/P.B Head
410	45260400	Erase Head
412	03614000	Holl IC DN6838 (Reed Switch)

***Though every part included in mechanism ass'y is numbered in exploded view, parts unlisted in the parts list are not supplied.**

Abbreviations


1. Pan Head Tapping Screw ....PT Type
2. Washer Head Tapping Screw .... WT Type
3. Pan Head Screw ... . P Type
4. Pan Head SEMS A Screw PSA Type
5. Pan Head SEMS B Screw ..PSB Type
6. Binding Head SEMS F Screw .... BSF Type
7. Binding Head Screw ......B Type
8. Flat Countersunk Head Screw .... F Type
9. Flat Countersunk Wood Screw .... FC Type
10. Round Head Wood Screw .... RH Type
11. Hex. Socket Setscrew .... SC Type
12. Slot Type Setscrew .... SS Type
13. Spring Washer .... S Type
14. Plain Washer .... P Type
15. Retaining Ring (E Washer) .... E Type

<Exploded View>


STOP
PAUSE
REC

6. OPERATION OF MECHANISM

Fig. 6-1 Mechanism Front View

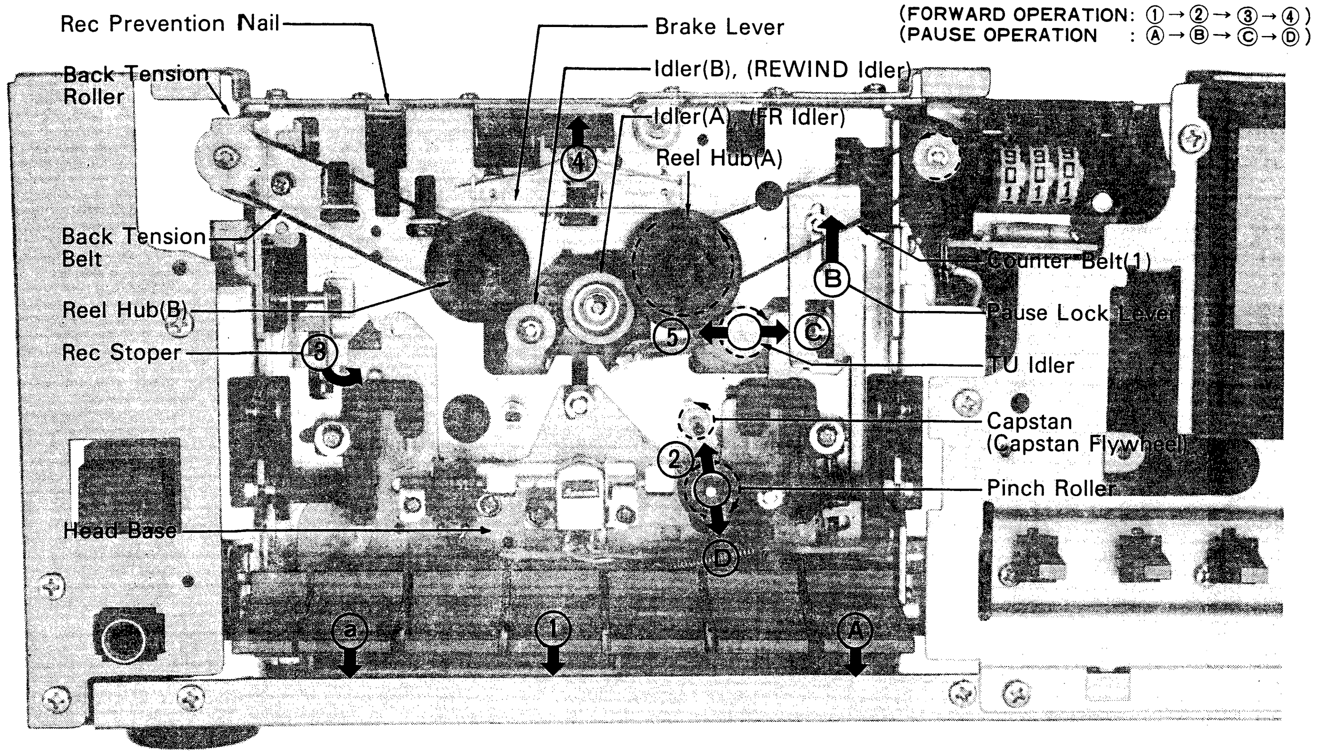

(FORWARD OPERATION: ①→②→③→④)
(PAUSE OPERATION : Ⓐ→Ⓑ→Ⓒ→Ⓓ)
Rec Prevention Nail
Brake Lever
Back Tension Roller
Idler(B), (REWIND Idler)
Idler(A) (FR Idler)
Reel Hub(A)
Back Tension Belt
Counter Belt(1)
Reel Hub(B)
Pause Lock Lever
Rec Stoper
TU Idler
Capstan (Capstan Flywheel)
Pinch Roller
Head Base
①
②
③
④
⑤
Ⓐ
Ⓑ
Ⓒ
Ⓓ
ⓐ

Fig. 6-2 Mechanism Front View

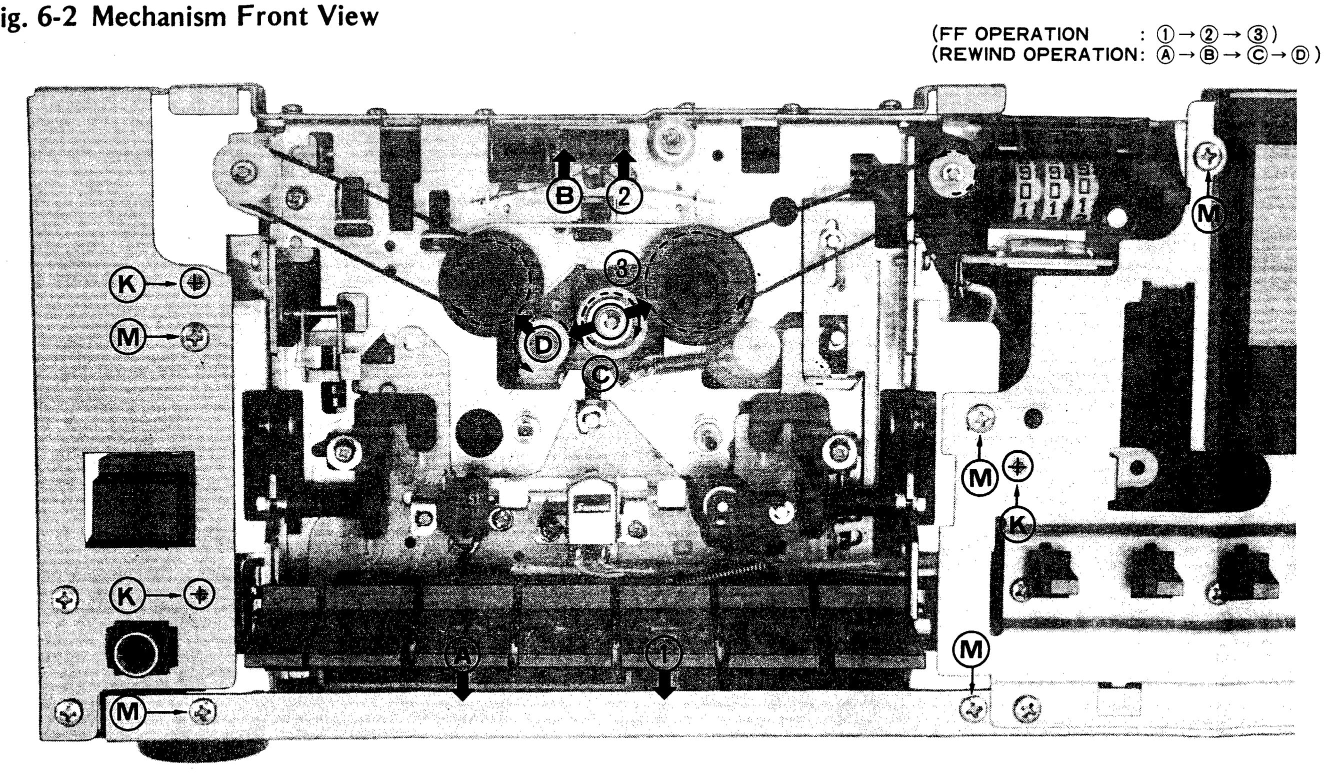
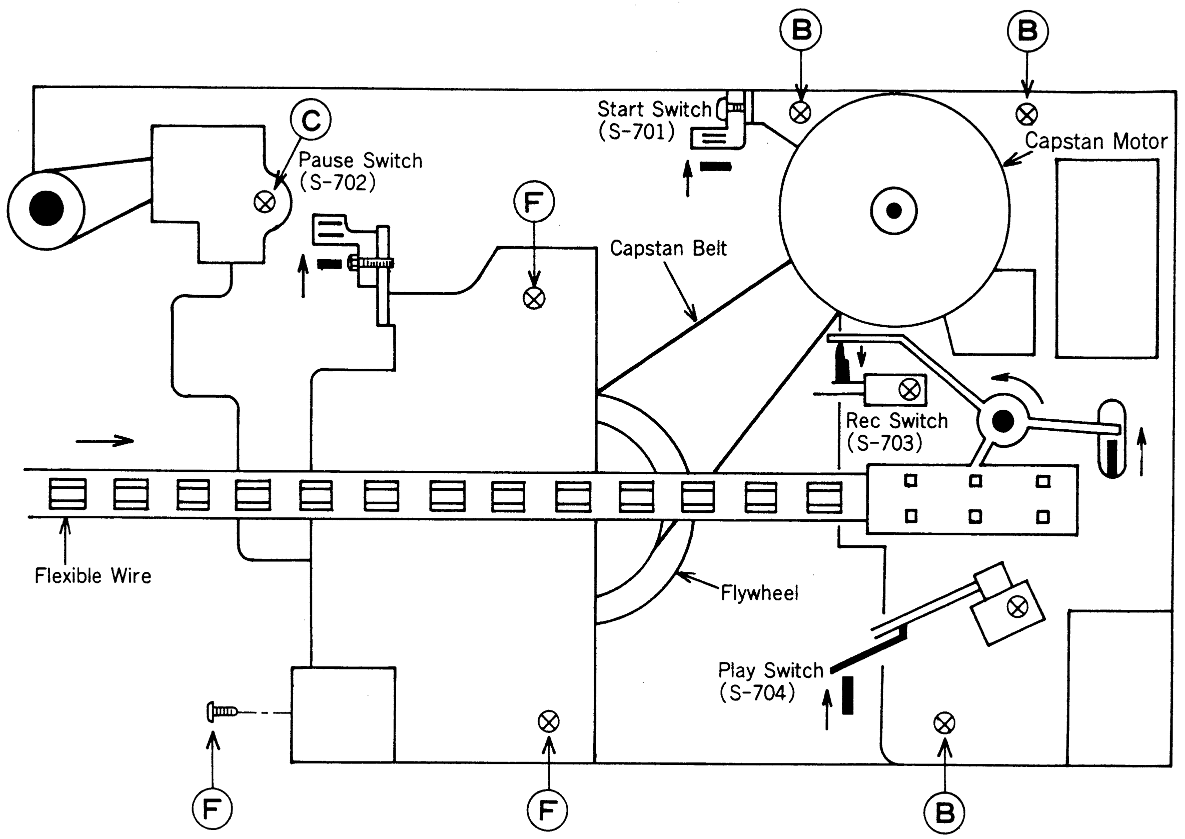

(FF OPERATION : ①→②→③)
(REWIND OPERATION: Ⓐ→Ⓑ→Ⓒ→Ⓓ)
Ⓚ
Ⓜ
①
②
③
Ⓐ
Ⓑ
Ⓒ
Ⓓ

Fig. 6-3 Mechanism Rear View


Ⓑ
Ⓑ
Ⓒ
Pause Switch (S-702)
Start Switch (S-701)
Capstan Motor
Ⓕ
Capstan Belt
Rec Switch (S-703)
Flexible Wire
Flywheel
Play Switch (S-704)
Ⓕ
Ⓕ
Ⓑ

<Operation>

6-1. Driving Mechanism

Motor begins to rotate by pushing the REWIND, PLAY and FF button. The Driving Motor is an electronically controlled DC Motor and driving torque is transmitted to Flywheel by Motor Pulley and Capstan Belt.

6-2. Play Mode (See Fig. 6-1)

When the PLAY Button is pushed, the head base moves toward the Reel Hub, which makes the Take-up Pulley Shaft bear against the Reel Hub. At the same time, the Brake is released by Brake Lever and Pinch Roller bears against the Capstan Pulley through tape. In accordance with the above, cassette tape gets constant speed running. During Play Mode operation, the Record Button can not be pushed because Rec Stopper Lever is borne to mechanism chassis.

6-3. Fast Forward & Rewind Operation (See Fig. 6-2)

When the FF Button is pushed, the FR Idler bears against the Flywheel and Reel hub (A). When the REWIND button is pushed, the above Mechanism is operated through REWIND Idler between FR Idler and Reel hub (B). The take-up torque in FF MODE is transmitted from Flywheel next FR Idler to Reel hub (A) and REWIND torque is transmitted from Flywheel next FR Idler and REWIND Idler to Reel hub (B). Abnormal torque occurred by tape starting, tape stopping or other causes is absorbed by slipping of felt around FR Idler.

6-4. Pause Mode (See Fig. 6-1, 6-3)

PAUSE operation is only performed in PLAY or REC MODE. When the PAUSE Button is pushed, the Pinch Roller is disengaged from Capstan shaft and Take-up Pulley shaft is disengaged from the Reel hub (A), that tape travel is stopped.

At the same time, Pause switch (S-702) behind mechanism turns on that a voltage is applied to base of TR606 on Automatic Shut off circuit.

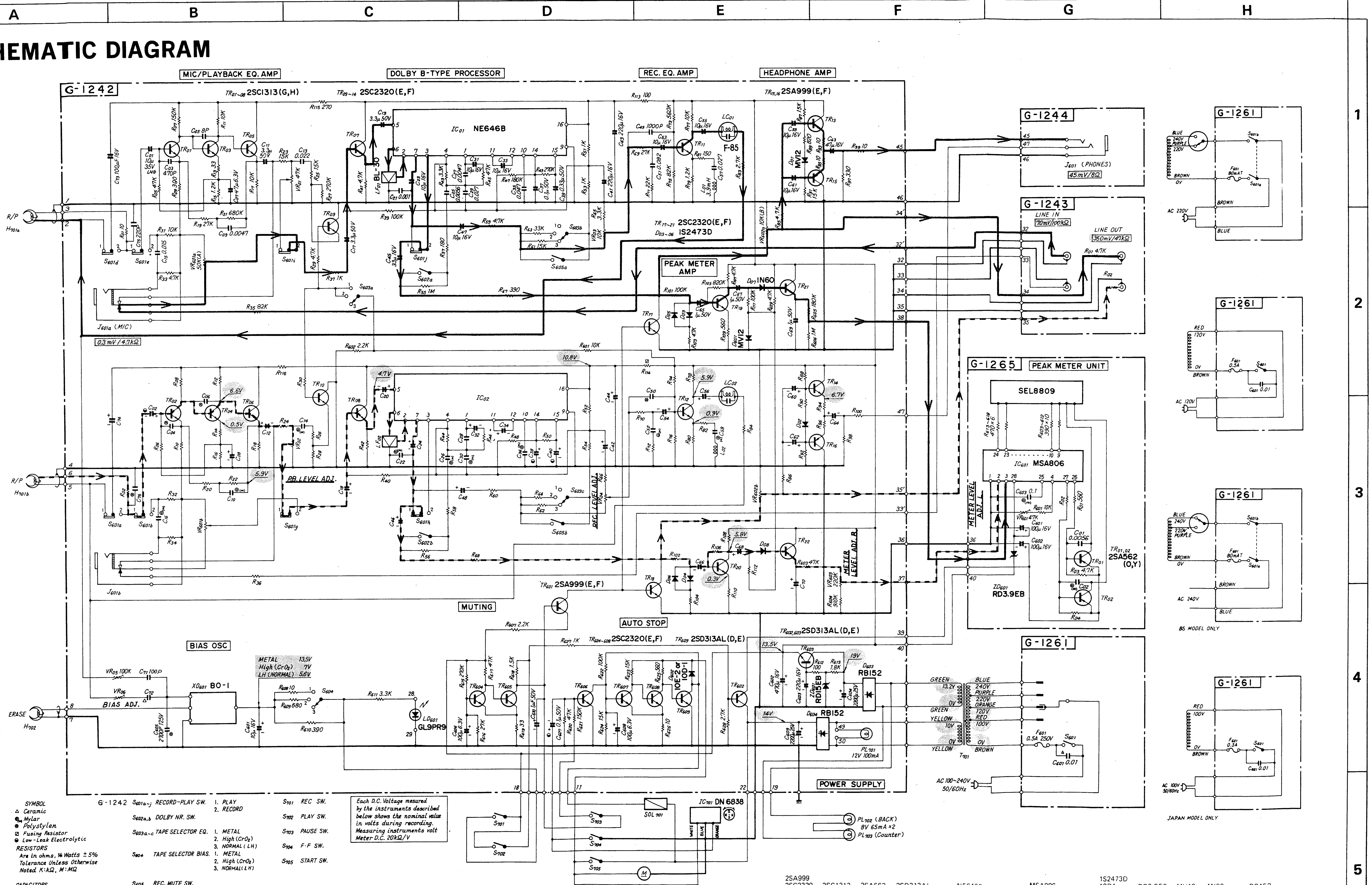
As a result, plunger solenoid does not turn on and pause operation is kept on even if voltage from lead switch is not output to stop the rotation of reel hub (A).

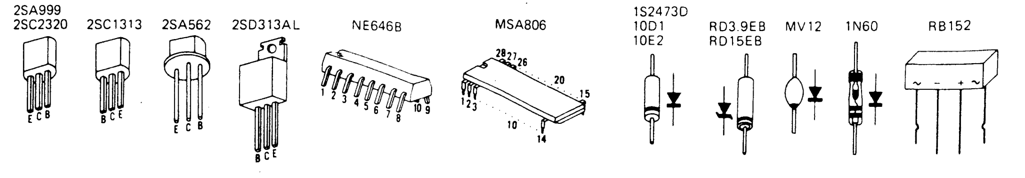
6-5. REC Mode (See Fig. 6-1)

The function of tape transport mechanism is the same as that of PLAY MODE operation. A cassette has "tabs" on the side opposite to that exposing the bare tape. If they are broken off, the cassette will prevent the depression of RECORD Button. When the Record Button and the PLAY Button are pushed, the slide switch on G-1266 main circuit board is changed from PLAY MODE to REC MODE.

* Design and specifications subject to change without notice for improvement.
* La présentation et les spécifications sont susceptibles d'êter modifiées sans préavis par suites d'améliorations éventuelles.
* Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

7. SCHEMATIC DIAGRAM


A
B
C
D
E
F
G
H
1
2
3
4
5
MIC/PLAYBACK EQ. AMP
DOLBY B-TYPE PROCESSOR
REC. EQ. AMP
HEADPHONE AMP
G-1242
TR01~08 2SC1313(G,H)
TR09~14 2SC2320(E,F)
TR15,16 2SA999(E,F)
IC01 NE646B
IC02
LF01 BL-30
LC01 F-85
TR17~21 2SC2320(E,F)
D03~06 1S2473D
PEAK METER AMP
D07 1N60
D01 MV12
D02 MV12
R/P H701a
R/P H701b
J601a (MIC)
0.3mV / 4.7kΩ
J601b
PB LEVEL ADJ.
REC LEVEL ADJ.
METER LEVEL ADJ. R
MUTING
TR601 2SA999(E,F)
AUTO STOP
TR604~608 2SC2320(E,F)
TR609 2SD313AL(D,E)
TR602,603 2SD313AL(D,E)
BIAS OSC
X0601 BO-1
METAL 13.5V
High (CrO2) 7V
LH (NORMAL) 5.6V
BIAS ADJ.
ERASE H702
LD601 GL9PR9
D602 10E-2 or 10D-1
D603 RD15EB
D603 RB152
D604 RB152
PL701 12V 100mA
POWER SUPPLY
IC701 DN 6838
SOL701
S701
S702
S703
S704
S705
M
PL702 (BACK)
8V 65mA ×2
PL703 (Counter)
G-1244
J601 (PHONES)
45mV/8Ω
G-1243
LINE IN
70mV/100kΩ
LINE OUT
350mV/47kΩ
G-1265
PEAK METER UNIT
SEL8809
IC601 MSA806
METER LEVEL ADJ. L
TR01,02 2SA562 (O,Y)
ZD601 RD3.9EB
G-1261
GREEN
YELLOW
BLUE
240V
PURPLE
220V
ORANGE
120V
RED
100V
0V
BROWN
T701
F601 0.5A 250V
S601
C601 0.01
AC 100~240V 50/60Hz
AC 220V
AC 120V
AC 240V
BS MODEL ONLY
AC 100V 50/60Hz
JAPAN MODEL ONLY


2SA999
2SC2320
2SC1313
2SA562
2SD313AL
NE646B
MSA806
1S2473D
10D1
10E2
RD3.9EB
RD15EB
MV12
1N60
RB152
E C B
B C E
E C B
B C E

SYMBOL
- △ Ceramic
- ⊕ Mylar
- ⊗ Polystylen
- ☒ Fusing Resistor
- ● Low-Leak Electrolytic

RESISTORS
Are in ohms, ¼ Watts ±5%
Tolerance Unless Otherwise
Noted K:kΩ, M:MΩ

CAPACITORS
Are in μF, Unless Otherwise Noted P:pF

G-1242
S601a~j RECORD-PLAY SW. 1. PLAY
2. RECORD
S602a,b DOLBY NR. SW.
S603a~c TAPE SELECTOR EQ. 1. METAL
2. High (CrO2)
3. NORMAL (LH)
S604 TAPE SELECTOR BIAS. 1. METAL
2. High (CrO2)
3. NORMAL (LH)
S605 REC. MUTE SW.
VR601 REC. LEVEL VR.
VR602 OUTPUT VR.

S701 REC SW.
S702 PLAY SW.
S703 PAUSE SW.
S704 F·F SW.
S705 START SW.

Each D.C. Voltage mesured by the instruments described below shows the nominal value in volts during recording. Measuring instruments volt Meter D.C. 20kΩ/V

━━━ Rec Mode Signal
- - - - Play Mode Signal

8. REPLACEMENT OF MAIN PARTS (See exploded view on page 8)

8-1. Mechanism Ass'y

1) Remove bonnet, front panel, and mechanism cover.
2) Loosen 5 screws Ⓜ. (See Fig. 6-2 on page 9)

8-2. Mechanism Cover

1) Remove bonnet and front panel.
2) Loosen 3 screws Ⓚ. (See Fig. 6-2 on page 9)

8-3. Motor (408)

1) Remove bonnet.
2) Loosen 3 screws Ⓑ at motor mounting plate. (See Fig. 6-3 on page 9)
3) Pull out motor mounting plate (130) then loosen 3 screws (206).

8-4. Capstan Belt (153)

1) Remove bonnet.
2) Loosen 3 screws Ⓑ at motor mounting plate (See Fig. 6-3 on page 9)
3) Pull out motor mounting plate (130).
4) Loosen 3 screws Ⓕ fixing flywheel bearing plate.
5) Remove flywheel bearing plate.
6) Replace capstan belt.

8-5. Reel Hub Ass'y (104), (105)

1) Remove bonnet, front panel, and mechanism cover.
2) Take off the cap (161).
3) Pull off reel hub (A) (104) & reel hub (B) (105).

8-6. Cassette Holder Right Nail (169) & Left Nail (170)

1) Remove bonnet, front panel, and mechanism.
2) Take off the end of spring (319).
3) Remove E ring (222).
4) Loosen Nut at the shaft (163) of cassette holder.

8-7. Rec Prevention Nail (119)

1) Remove bonnet, front panel, and mechanism cover.
2) Loosen 3 screws Ⓑ at motor mounting plate. (See Fig. 6-3 on page 9)
3) Pull out motor mounting plate (130).
4) Loosen 3 screws (206) at Rec Prevention Nail mounting plate (116).
5) Take out Rec Prevention Nail mounting plate (116).
6) Remove E ring (221).

8-8. Head Cover

Perform this procedure when making azimuth adjustment or replacing head cover. Since props of head cover are fragile, please pay attention.

1) Open head cover about 1 cm (1/3 inch) and this anguration is important to remove it.
2) Lift the head cover keeping the angulation above.
   Putting forefinger in the 1 cm space (between head cover and mechanism cover) and lifting head cover to hold it by thumb and forefinger make easier to take off the first hooking (See Fig. 8-1)
3) Hold head cover close to mechanism cover, then lift it keeping this state till the possible point the head cover is lifted up.
4) While pressing both sides of head cover inward, remove head cover carefully. (See Fig. 8-2)
5) To attach head cover, perform step 3) inversely at first, then depress down after inserting to supporting groove.

Fig. 8-1

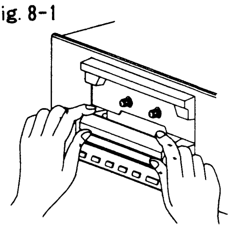
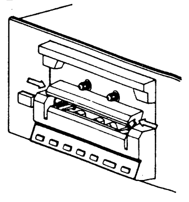
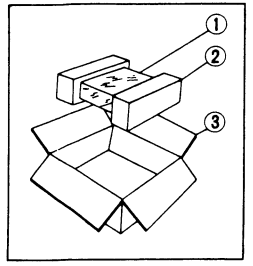


Fig. 8-2



9. PACKING LIST

Parts No.	Stock No.	Description
1	91166910 91200500	Vinyl Cover Polyethylene Sheet <SC-1300>
2	90301700 90301600	Styrofoam Packing <SC-1300> Styrofoam Packing <SC-1330>
3	90500100 90500200	Carton Case <SC-1300> Carton Case <SC-1330>



10. ACCESSORY PARTS LIST

Stock No.	Description
92053400	Operating Instructions <SC-1300>
92053700	Operating Instructions <SC-1330>
92303000	Schematic Diagram
94300300	Head Cleaning Pen x 1
38103300	Input-Output Cord x 2
72963600	Rack Mounting Adaptor x 2 <SC-1330>

SANSUI ELECTRONICS CORPORATION 1250 Valley Brook Ave., Lyndhurst, N.J. 07071 U.S.A.
333 West Alondra Blvd., Gardena, California 90247 U.S.A.
3036 Koapaka St. Honolulu, Hawaii 96819 U.S.A.
SANSUI AUDIO EUROPE N.V. North Trade Bldg. [illegible] Noorderlaan 133-Bus [illegible] 2030 Antwerp, Belgium
SANSUI AUDIO EUROPE S.A. Arabella center, [illegible] Frankfurt AM Main, Lyonel Strasse 44-46, West Germany
SANSUI ELECTRIC COMPANY LTD. 14-1, Izumi 2-chome, Suginami-ku, Tokyo 168 Japan PHONE: (03) 323-1111/TELEX: 232-2076
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